

WASTEWATER TREATMENT METHOD USING MEMBRANE BIOREACTOR WITH REDUCED SLUDGE PRODUCTION

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Abstract of KR20030060625

PURPOSE: Provided is a method for treating wastewater using a membrane bioreactor, the method being capable of reducing sludge by mechanical and chemical pretreatment of excess sludge.

CONSTITUTION: The method is performed by using a wastewater treatment system including a membrane activated sludge treatment unit(10), an excess sludge pretreatment basin(20) and a coagulant feeding unit(30), and the method comprises the steps of inputting excessive sludge into the excess sludge pretreatment unit(10), feeding alkali chemicals to the excess sludge pretreatment unit (10), thereby improving solubility and biodegradability of the sludge, and selectively returning the sludge of the pretreatment unit(10) to an anoxic zone(15) and an aerobic membrane bioreactor(13), thereby accelerating biodegradation of organic material in the sludge.

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